



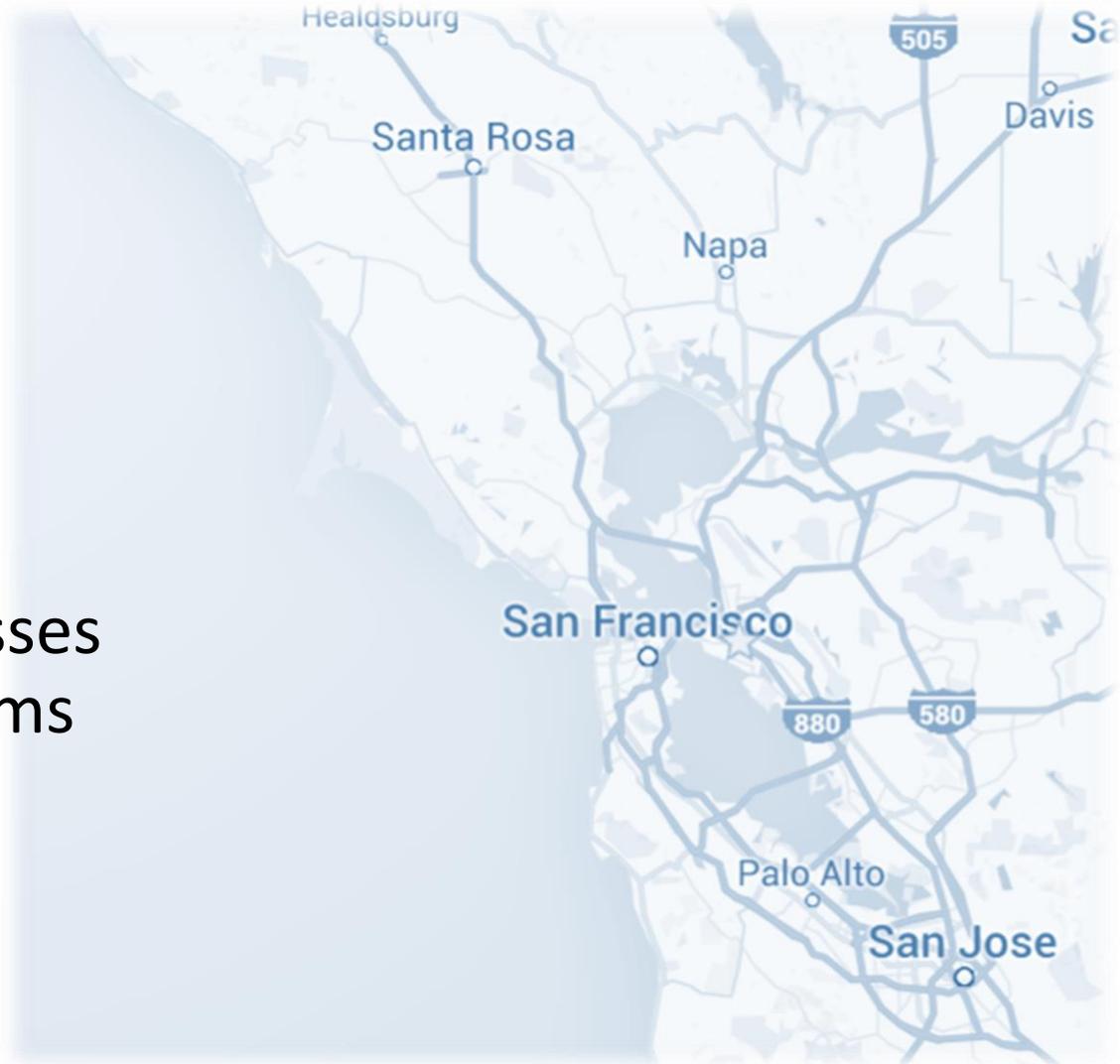
# EVALUATING REGIONAL SRTS PROGRAMS

HANNAH DAY-KAPELL, ALTA PLANNING + DESIGN

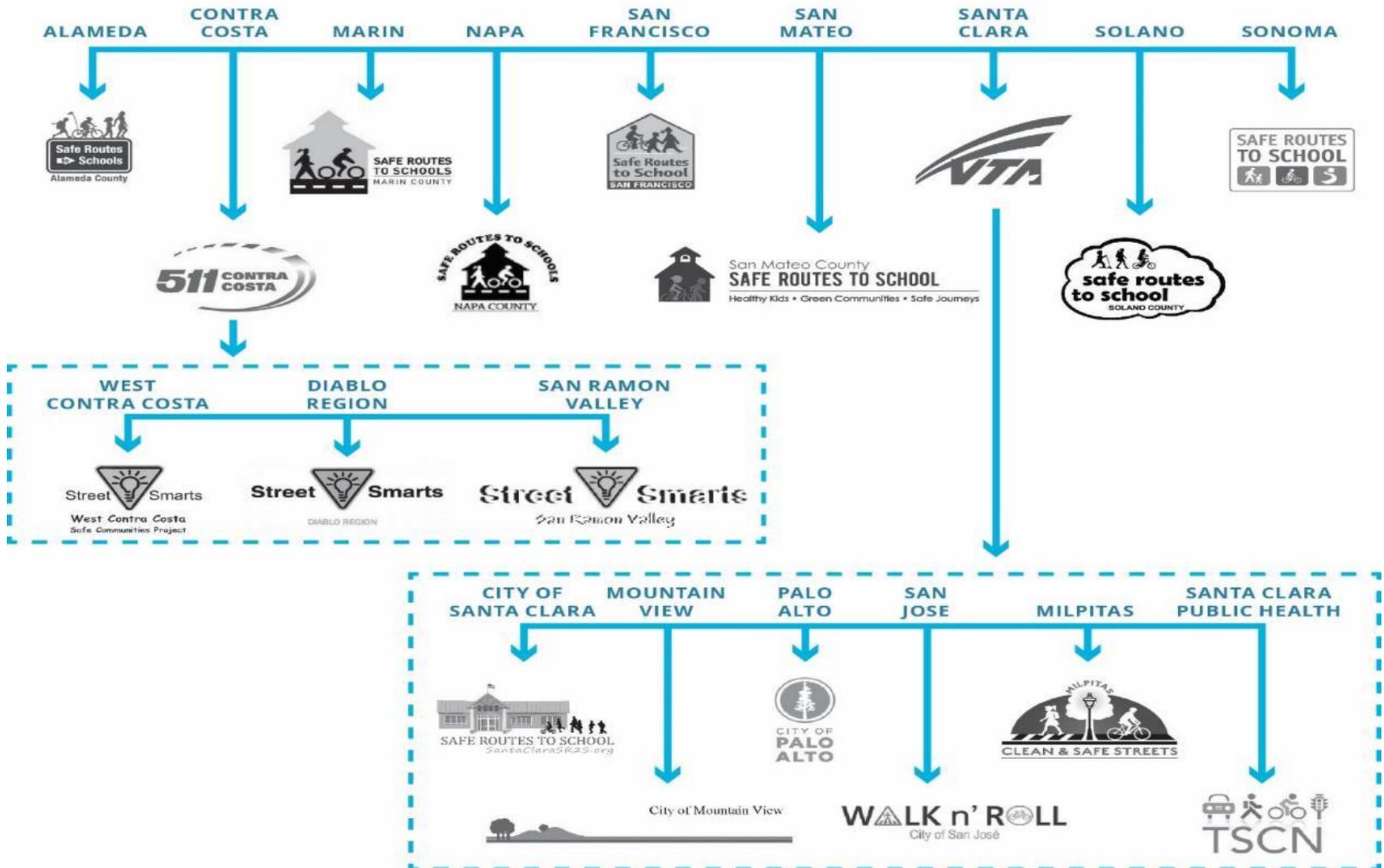
# REGIONAL SRTS PROGRAM EVALUATION

## Goals

- Evaluate GHG emissions impacts
- Identify key successes to improve programs



# PROGRAMS IN THE BAY AREA



# PARENT SURVEYS



**Safe Routes  
to Schools**

Alameda County

## SPRING 2013 ALAMEDA COUNTY SAFE ROUTES TO SCHOOLS PARENT/CAREGIVER SURVEY

The Alameda County Safe Routes to Schools program works to improve traffic safety around schools. Please help us evaluate and improve the program by taking 10 minutes to complete this form and return it to your child's teacher. Thank you for responding.

Please only fill out and return one survey per family. All responses will be kept confidential.

YOU CAN ALSO COMPLETE THIS SURVEY ONLINE AT: [www.surveymonkey.com/s/Alameda2013](http://www.surveymonkey.com/s/Alameda2013)

1. What is the street intersection nearest your house? \_\_\_\_\_ and \_\_\_\_\_

**For questions 2 through 11, please tell us about your child(ren) and the school(s) they attend.**

If you have more than 3 children, answer the survey for the youngest child in your family.

	Child 1			Child 2		
2. Gender (check one)	<input type="radio"/> Male	<input type="radio"/> Female		<input type="radio"/> Male	<input type="radio"/> Female	
3. School (write in)	_____			_____		
4. Grade (write in)	_____			_____		
5. Does this school have a Safe Routes to Schools program?	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Don't Know	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Don't Know
6. What is the approximate distance from your home to this child's school?	<input type="radio"/> 1/4 mile or less	<input type="radio"/> 1/4 to 1/2 mile	<input type="radio"/> 1/2 to 1 mile	<input type="radio"/> 1/4 mile or less	<input type="radio"/> 1/4 to 1/2 mile	<input type="radio"/> 1/2 to 1 mile
		<input type="radio"/> More than 2 miles (how far?): _____ miles		<input type="radio"/> 1 to 2 miles	<input type="radio"/> More than 2 miles (how far?): _____ miles	
7. Has this child asked your permission to walk /bike to or from school in the last year?	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> This child already walks/bikes	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> This child already walks/bikes

# TRIP DIARY

8. Last week, how did this child travel TO school?  
(check one box per day)



Walk



Bike



Family  
Car (your  
kids only)



School  
Bus



Carpool  
(with other  
kids)



City  
Bus/  
Transit



Other  
(scoot,  
skate)

Monday

Tuesday

Wednesday

Thursday

Friday

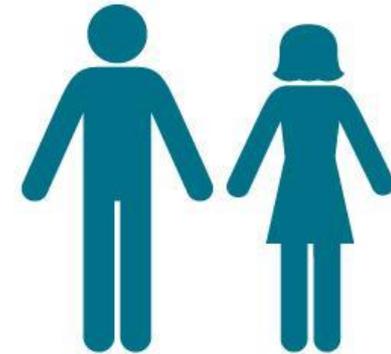
# REGION-WIDE DATA COLLECTED

## PARENT SURVEYS

**23,000 Surveys**

**107 Schools**

**5 Counties**



## STUDENT HAND TALLIES

**1,000,000+ Trips**

**330 Schools**

**8 Counties**

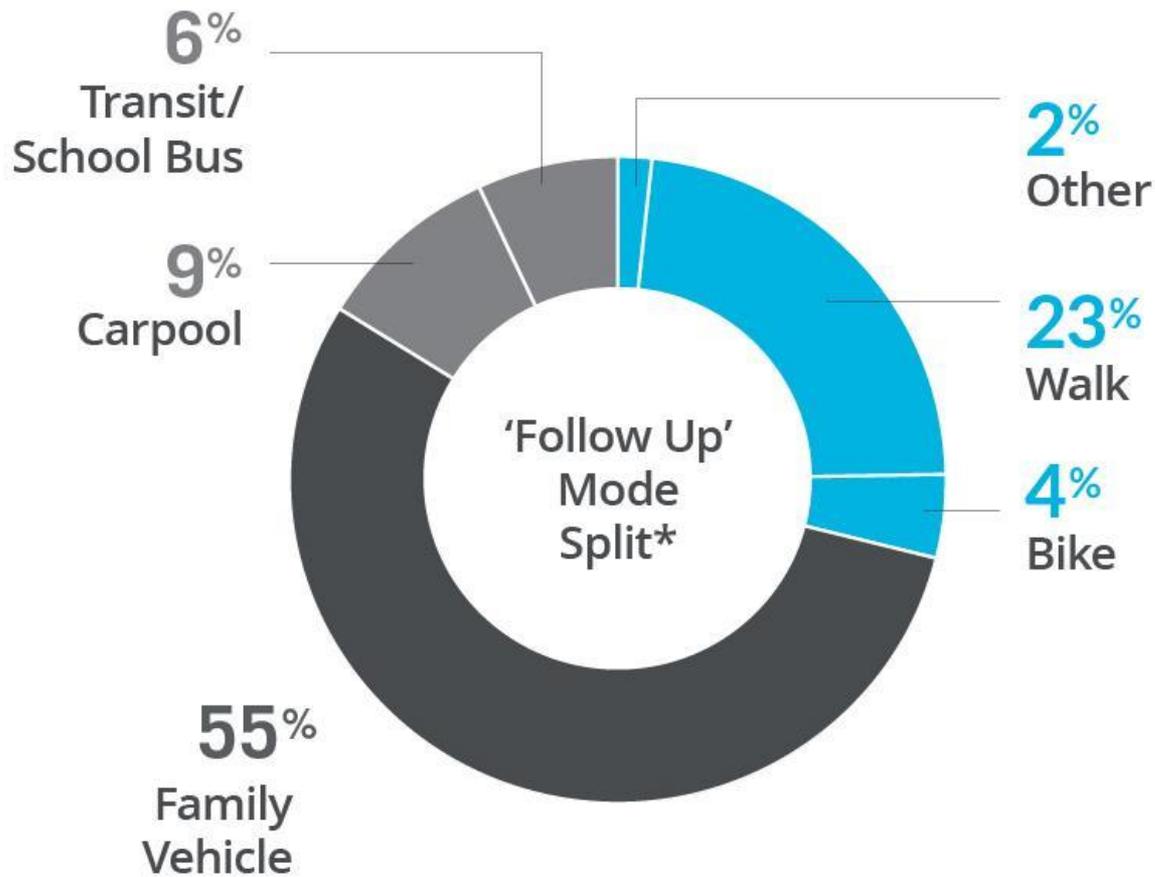


# ADDITIONAL DATA COLLECTED

School	Year SR2S program started	Grades	International Walk & Roll to School Day	Golden sneaker contest	Bike to School Day
<b>Alameda City Unified School District</b>					
Frank Otis Elementary	Fall 2010	K-5	●		●
Henry Haight Elementary	Fall 2010	K-5	●		●
Lincoln Middle	Fall 2010	6-8	●	●	●
Maya Lin	Fall 2013	K-5	●		●
Nea Community Learning Center	Fall 2010	K-12	●	●	●
Ruby Bridges Elementary	Fall 2013	K-5	●	●	●

# MODE SPLIT RESULTS

## CURRENT MODE SPLIT



# SRTS INCREASES WALKING & BIKING

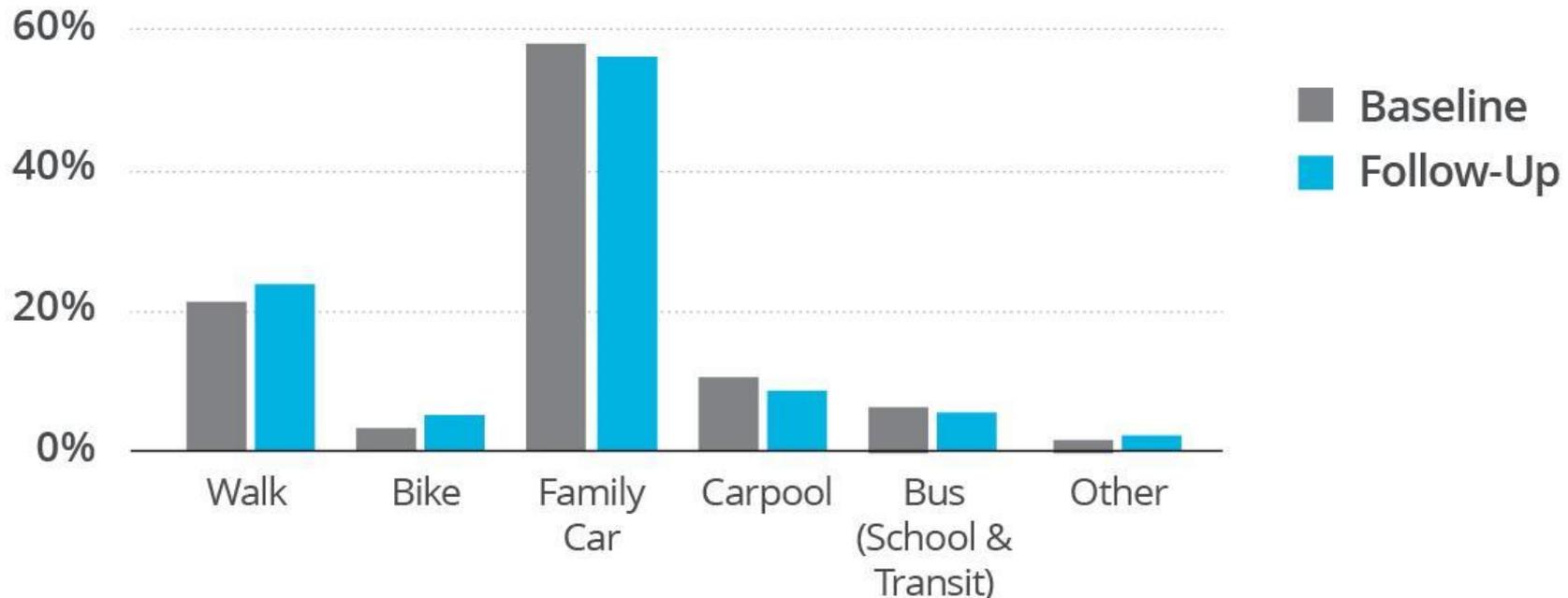
**+3%** Walking rate

**+14%** Biking rate

**-2%** Use of family vehicle

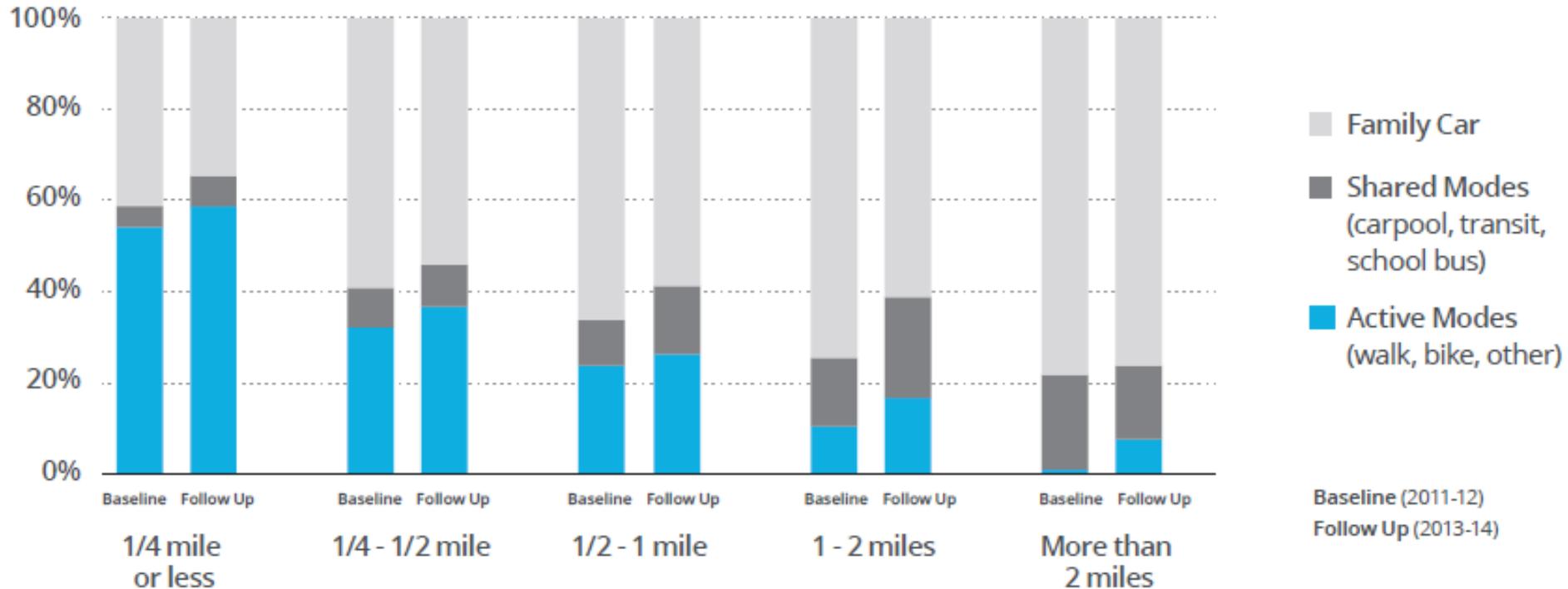
*Statistically significant to 95% confidence interval*

## MODE SHIFT



# IMPACTS BY DISTANCE FROM SCHOOL

## How Students Traveled to and from School by Distance Family Lives from School



Data from Alameda County report

# IMPACTS ON VEHICLE MILES TRAVELED

PARTICIPATING STUDENTS  
WALKED ALMOST

**200,000**  
**MORE MILES**



AND BIKED ALMOST

**150,000**  
**MORE MILES**

ANNUALLY

# EMISSIONS IMPACTS

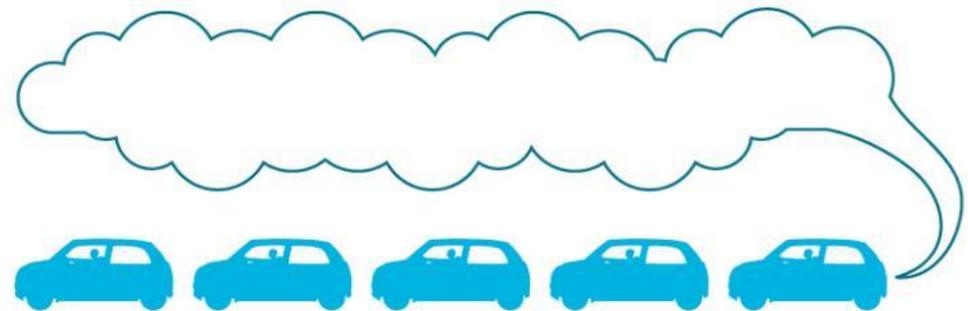


ON AVERAGE, PER-STUDENT ANNUAL  
MILES DRIVEN IN THE FAMILY CAR



**DECREASED**

**6.2 MILES**



**10.7%** *On average, trips 1 mile or less from school saw a*  
**REDUCTION**  
**IN GREENHOUSE GAS EMISSIONS**

# SRTS GOALS & PERFORMANCE MEASURES

## OUTCOMES

## MEASURES

GHG  
REDUCTIONS

*Mode shift to active transportation*

*Mode shift to shared transportation*

*Trip length by mode of transportation*

SAFETY  
IMPROVEMENTS

*Crash reduction near schools*

*Reduction in crash rate*

*Increase in students walking/bicycling to school*

IMPROVED  
PUBLIC HEALTH

*Increased physical activity*

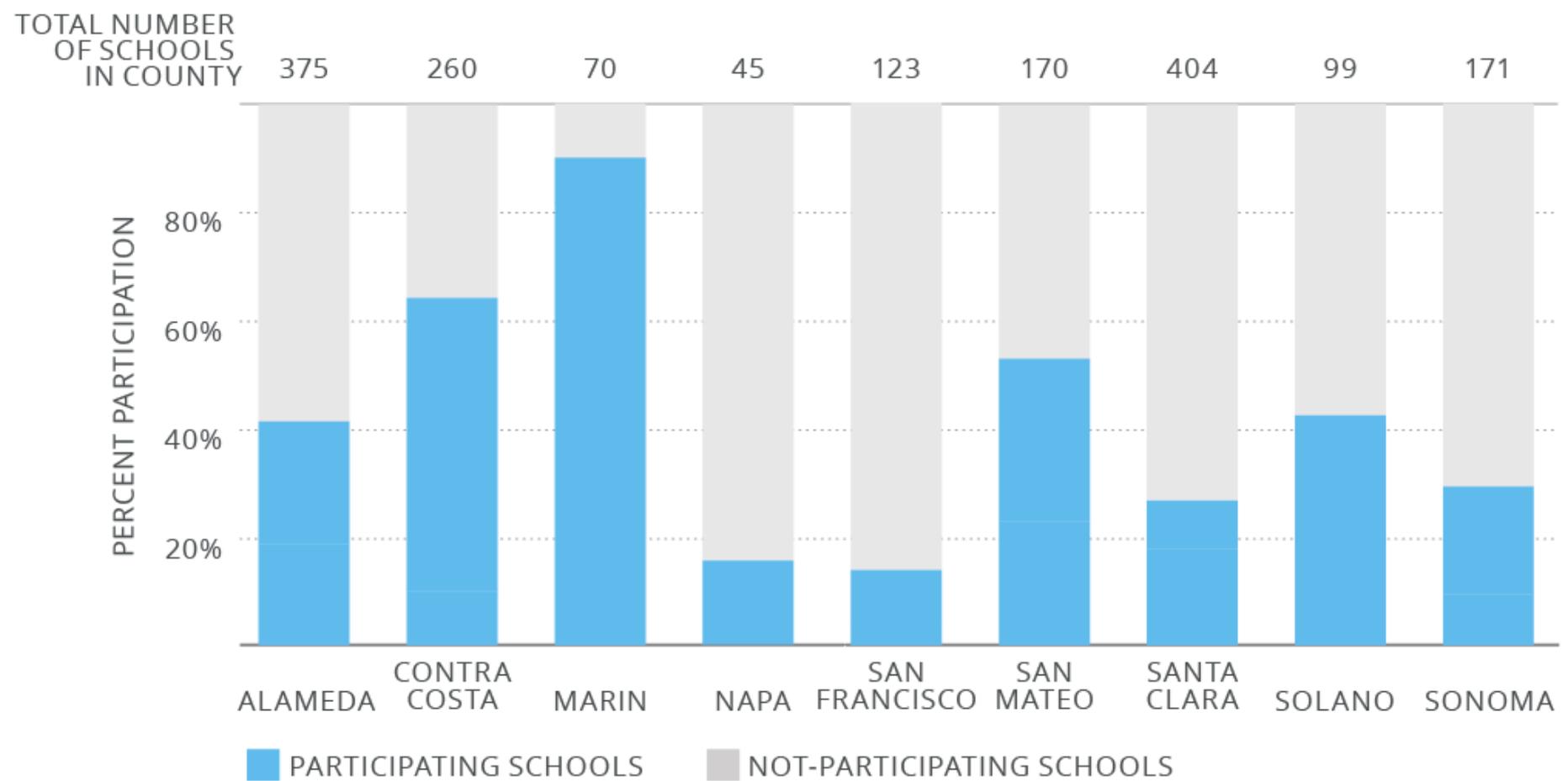
*Improved air quality due to reduced vehicle idling*

EQUITY  
REACH

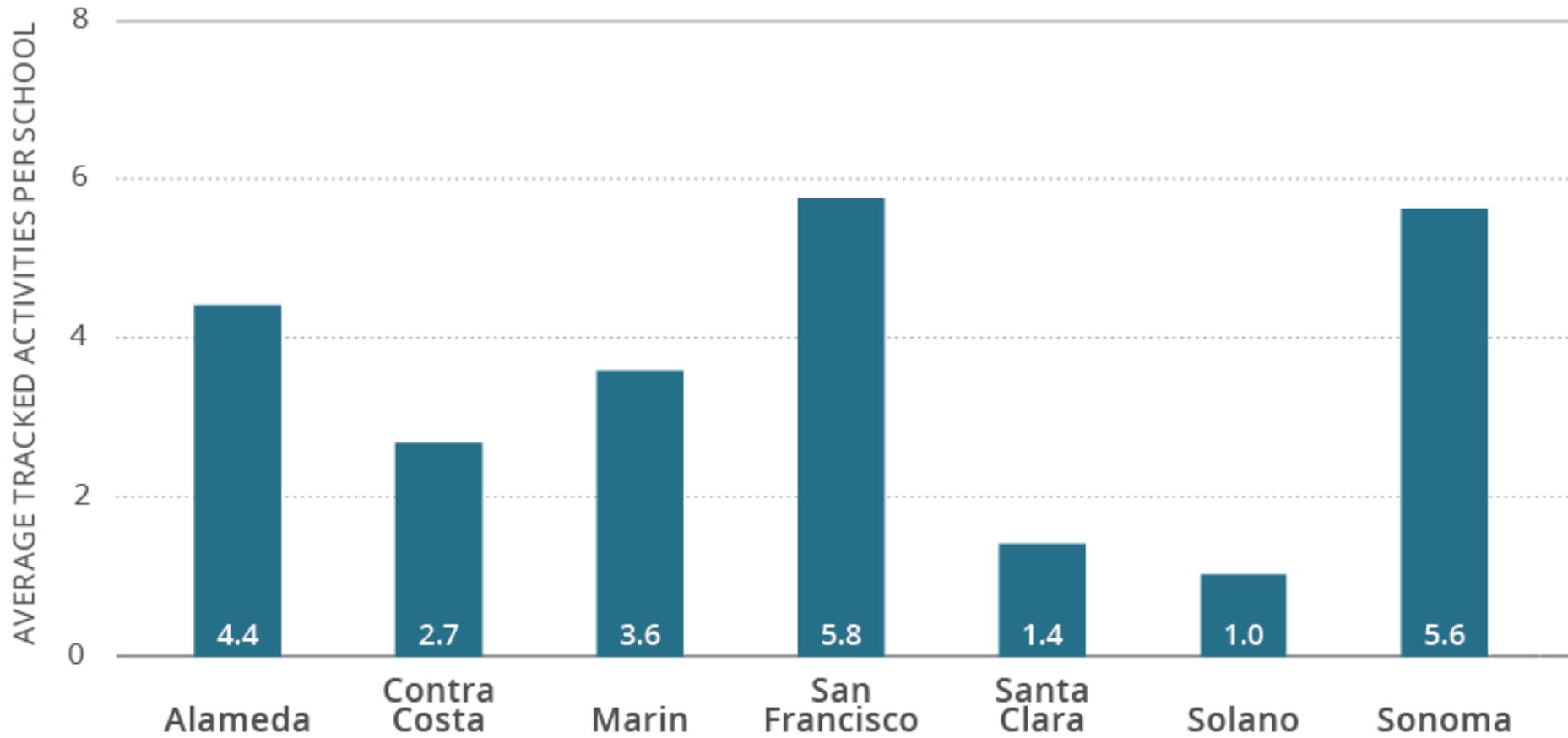
*Increased resources serving underserved schools*

*Increased participation by underserved communities*

# PROGRAM REACH



# PROGRAM DEPTH



# IMPACTS CHANGE OVER TIME



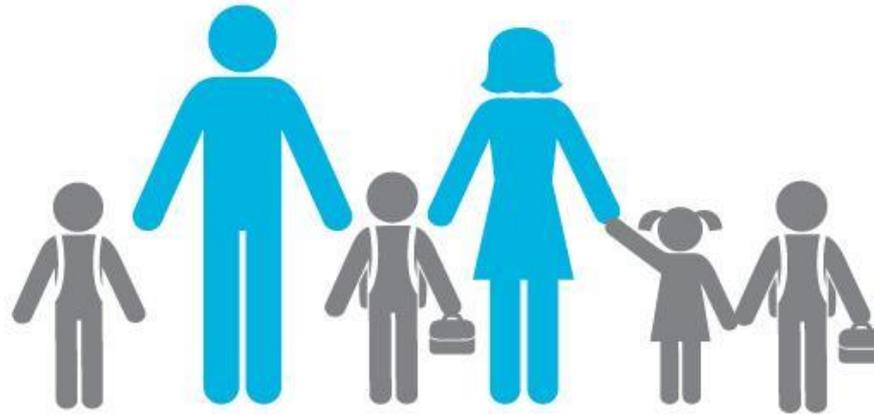
In the **first two years** of offering SRTS programs,  
schools show a

**31%**  
**INCREASE**

in active modes (walking, biking, and other),  
with an average of **13% increase thereafter.**

# DATA-DRIVEN PROGRAM IMPROVEMENTS

Activities that resulted in  
**INCREASING ACTIVE TRANSPORTATION:**



**FREQUENT WALK AND ROLL** programs  
**WALKING SCHOOL BUSES**  
**BIKE TRAIN** programs



**THANK YOU!**

**HANNAH DAY-KAPPELL, ALTA PLANNING + DESIGN**

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